

## INTERNATIONAL SEARCH REPORT

 International application No.  
PCT/KR2004/000216
**A. CLASSIFICATION OF SUBJECT MATTER**

IPC7 B01D 63/04, C02F 1/44

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC7 B01D 63/04

 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Korean Patents and applications for inventions since 1975

 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
eKIPASS(KPA, PAJ, FPD, USPATFULL) in KIPO
**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5944997 (Zenon Environmental Inc.) 31 August 1999 see Figure 2 & 4, Column 7 line 36 ~ line 48	1~4, 9
Y	US 5248424 (Zenon Environmental Inc.) 28 September 1993 see Figure 9 & 10, Column 23 line 1 ~ line 62	1~4, 9
Y	JP 05123543 (Kubota Corp.) 21 May 1993 see whole document	10, 11
Y	US 2002/0153299 (Zenon Environmental Inc.) 24 October 2002 see Figure 7A, 7B, 10, 11, page 11 [0112] ~ [0113], page 13 [0131] ~ page 15 [0143]	10, 11
A	JP 07275665 (Mitsubishi Rayon Co. Ltd.) 24 October 1995 see whole document	1~9
A	JP 05285349 (Nitto Denko Corp.) 02 November 1993 see whole document	10, 11

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

## \* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&amp;" document member of the same patent family

Date of the actual completion of the international search

29 JULY 2004 (29.07.2004)

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5783983 (Zenon Environmental Inc.) 21 July 1998 see Figure 9, Column 16 line 37 ~ Column 17 line 5	10, 11

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

PCT/KR2004/000216

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US-5944997-A	31-08-1999	NONE	
US-5248424-A	28-09-1993	AU-664935-B2 MX-9307193-A1 WO-9411094-A1 PL-173715-B1 CZ-9501202-A3 KR-177263-B1 DE-69324034-T2 EP-669851-B1 CA-2149414-C HU-221925-B1	07-12-1995 29-07-1994 26-05-1994 30-04-1998 17-01-1996 20-03-1999 18-11-1999 17-03-1999 23-05-2000 28-02-2003
JP-05123543-A	21-05-1993	NONE	
US-20020153299-A	24-10-2002	NONE	
JP-07275665-A	24-10-1995	NONE	
JP-05285349-A	02-11-1993	NONE	
US-5783983-A	21-07-1998	AU-6652896-A1 CA-2227692-AA WO-9706880-A2 EG-21552-A EP-846023-B1 DE-69624492-T2	12-03-1997 27-02-1997 27-02-1997 31-12-2001 23-10-2002 26-06-2003